# **Safety Data Sheet**



Issue Date 19-Feb-2010 Revision Date: 30-Aug-2013 Version 1

### 1. IDENTIFICATION

Product Identifier

Product Name Rust Remover

Other means of identification

**SDS #** SVM-034

UN/ID No UN2922 Product Code 37042

Formula code X1120

Recommended use of the chemical and restrictions on use

Recommended Use Rust converter.

### Details of the supplier of the safety data sheet

Manufacturer Address
ServiceMaster ™ Clean
3635 Knight Road Ste 7
Memphis, TN, USA. 38118

**Emergency Telephone Number** 

Company Phone Number1-800-756-5656 (ServiceMaster™ Clean)Emergency Telephone (24 hr)INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

### 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

### Signal Word

**Danger** 

#### **Hazard Statements**

Harmful if swallowed
Fatal if inhaled
Causes severe skin burns a

Causes severe skin burns and eye damage



Appearance Translucent liquid

Physical State Liquid

Odor Strong acid odor

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wear respiratory protection

Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do not induce vomiting

### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	40-70
Ammonium bifluoride	1341-49-7	10-30
Hydroxyacetic acid	79-14-1	3-7
Sulfamic acid	5329-14-6	1-5
Oxalic acid	144-62-7	1-5

### 4. FIRST-AID MEASURES

#### **First Aid Measures**

**General Advice** Provide this SDS to medical personnel for treatment.

**Eye Contact** Immediately flush with cool water. Remove contact lenses, if applicable, and continue

flushing for 15 minutes. Obtain medical attention immediately.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated

clothing. Wash contaminated clothing before reuse. If skin irritation persists, call a

physician.

**Inhalation** Remove to fresh air. Seek immediate medical attention/advice.

**Ingestion** Do not induce vomiting. Rinse mouth thoroughly with water. Drink 1 or 2 glasses of water.

Get medical attention if you feel unwell. Never give anything by mouth to a person who is

unconscious or convulsing.

### Most important symptoms and effects

**Symptoms** Irritation and corrosive burns to mouth, throat, and stomach. Prolonged contact may even

cause severe skin irritation or mild burn. May cause eye burns and permanent eye damage. Blindness may occur. May cause irritation to the mucous membranes and upper respiratory

tract.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically. Exposure to fluorides over the years may produce an embrittlement

and densification of bones, and an increased calcification of ligaments and vertebrae

resulting in spinal stiffness.

#### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

#### **Specific Hazards Arising from the Chemical**

Product is not flammable or combustible.

**Hazardous Combustion Products** May include and are not limited to oxides of carbon, hydrogen fluoride.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal Precautions**Use personal protective equipment as required.

**Environmental Precautions** See Section 12 for additional Ecological Information. Prevent large spills from entering

sewers or waterways.

#### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up

Before attempting clean up, refer to hazard data given above. Small spills may be absorbed

with non-reactive absorbent and placed in suitable, covered, labeled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier

for advice.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on Safe Handling Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using

this product. Wash thoroughly after handling. Use personal protection recommended in

Section 8. Use only in well-ventilated areas.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up and

out of reach of children. Store away from incompatible materials.

Incompatible Materials Alkaline materials. Metals.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ammonium bifluoride	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F
1341-49-7	_	TWA: 2.5 mg/m <sup>3</sup> dust	_
		(vacated) TWA: 2.5 mg/m <sup>3</sup>	
Oxalic acid	STEL: 2 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	IDLH: 500 mg/m <sup>3</sup>
144-62-7	TWA: 1 mg/m <sup>3</sup>	(vacated) TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
		(vacated) STEL: 2 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup>

#### Appropriate engineering controls

**Engineering Controls** General ventilation normally adequate. Eyewash stations. Showers.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Chemical splash goggles.

**Skin and Body Protection** Rubber gloves. Confirm with a reputable supplier first.

**Respiratory Protection**No protection is ordinarily required under normal conditions of use and with adequate

ventilation.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Tag Closed Cup

#### Information on basic physical and chemical properties

Physical State Liquid

AppearanceTranslucent liquidOdorStrong acid odorColorColorlessOdor ThresholdNot available

Property Values Remarks • Method

pH <1 100%

Melting Point/Freezing Point

Not determined

Boiling Point/Boiling Range

100 °C / 212 °F

Flash Point None

Evaporation Rate
Flammability (Solid, Gas)
Upper Flammability Limits
Lower Flammability Limit
Vapor Pressure
Vapor Density
Not available
Not available
Not available

Specific Gravity 1.138-1.287 (1=Water)

Water Solubility Completely soluble Solubility in other solvents Not determined **Partition Coefficient** Not determined **Autoignition Temperature** Not applicable **Decomposition Temperature** Not determined **Kinematic Viscosity** Water thin Dynamic Viscosity Water thin **Explosive Properties** Not determined **Oxidizing Properties** Not determined **Additional Information** % Volatile (Wt %): 57.0 Density 9.50-9.60 lb/gal

### 10. STABILITY AND REACTIVITY

#### Reactivity

Do not mix with anything but water. Reacts vigorously with alkaline material.

### **Chemical Stability**

Stable under recommended storage conditions.

### **Possibility of Hazardous Reactions**

None under normal processing.

### **Conditions to Avoid**

Keep out of reach of children.

#### **Incompatible Materials**

Alkaline materials. Metals.

#### **Hazardous Decomposition Products**

May include and are not limited to oxides of carbon, hydrogen fluoride when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns.

**Inhalation** Fatal if inhaled.

**Ingestion** Harmful if swallowed.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium bifluoride 1341-49-7	= 130 mg/kg (Rat)	-	-
Hydroxyacetic acid 79-14-1	-	-	= 7100 μg/m³(Rat ) 4 h
Sulfamic acid 5329-14-6	= 1450 mg/kg (Rat)	-	-
Oxalic acid 144-62-7	= 7500 mg/kg ( Rat )	= 20000 mg/kg (Rat)	-

### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Germ cell mutagenicity** This product is not reported to produce mutagenic effects in humans.

**Carcinogenicity** Not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ammonium bifluoride		Group 3		
1341-49-7		·		

### Legend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

**Reproductive toxicity**This product does not contain any known or suspected reproductive hazards.

**Teratogenicity** No known significant effects or critical hazards.

### **Numerical measures of toxicity**

Not determined

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydroxyacetic acid		5000: 96 h Brachydanio rerio		
79-14-1		mg/L LC50 static		
Sulfamic acid		14.2: 96 h Pimephales		
5329-14-6		promelas mg/L LC50 static		
Oxalic acid		4000: 24 h Lepomis		125 - 150: 48 h Daphnia
144-62-7		macrochirus mg/L LC50		magna mg/L EC50 Static
		static		

### Persistence/Degradability

Not determined

### **Bioaccumulation**

Not determined

#### **Mobility**

Chemical Name	Partition Coefficient
Hydroxyacetic acid 79-14-1	-1.11
Oxalic acid 144-62-7	-0.81

### **Other Adverse Effects**

Not determined

### 13. DISPOSAL CONSIDERATIONS

### **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

### California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Oxalic acid	Toxic
144-62-7	

### 14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

**DOT** 

UN/ID No UN2922

**Proper Shipping Name** Corrosive liquid, toxic, n.o.s. (Ammonium bifluoride)

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group II

**IATA** 

UN/ID No UN2922

**Proper Shipping Name** Corrosive liquid, toxic, n.o.s. (Ammonium bifluoride)

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group ||

**IMDG** 

UN/ID No UN2922

**Proper Shipping Name**Corrosive liquid, toxic, n.o.s. (Ammonium bifluoride)

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group II

**TDG** 

UN2922

**Proper Shipping Name**Corrosive liquid, toxic, n.o.s. (Ammonium bifluoride)

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group II

### 15. REGULATORY INFORMATION

#### **International Inventories**

TSCA All ingredients are listed or exempt from listing on Chemical Substance Inventory

**DSL** Listed **NDSL** Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### US Federal Regulations

#### **CERCLA**

Ī	Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
ĺ	Ammonium bifluoride	100 lb		RQ 100 lb final RQ
	1341-49-7			RQ 45.4 kg final RQ

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#### **SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Ammonium bifluoride - 1341-49-7	1341-49-7	10-30	1.0

#### **CWA (Clean Water Act)**

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ammonium bifluoride	100 lb			X
1341-49-7 ( 10-30 )				

#### **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ammonium bifluoride 1341-49-7	X	X	X
Sulfamic acid 5329-14-6	X		
Oxalic acid 144-62-7	X	X	X

### **16. OTHER INFORMATION**

NFPA_	Health Hazards	Flammability	Instability	Special Hazards
	3	0	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	Not determined	Not determined	Not determined	Not determined

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#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**